

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-845
Relating to Certification of New Motor Vehicles

FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1999 model-year Ford Motor Company exhaust emission control systems are certified as described below for medium-duty vehicles:

Emission Standard Category: Low-Emission Vehicle (LEV)

Fuel Type (Certification Fuel): Gasoline (Indolene)

Engine Family: XFMXA04.6JGC Displacement: 4.6 Liters (280 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Dual Three Way Catalytic Converters (two)
Dual Heated Oxygen Sensors (two)
Exhaust Gas Recirculation
Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The non-methane organic gas (NMOG), carbon monoxide (CO), oxides of nitrogen (NOx), and formaldehyde (HCHO) LEV certification exhaust emission standards for this engine family in grams per mile are:

<u>Test Weight</u> <u>(lbs.)</u>	<u>Miles</u>	<u>NMOG</u>	<u>CO</u>	<u>NOx</u>	<u>HCHO</u>	<u>CO (20°F)</u>
5751-8500	50,000	0.195	5.0	0.6	0.022	12.5
	120,000	0.280	7.3	0.9	0.032	n/a

The LEV certification exhaust emission values for this engine family in grams per mile are:

<u>Test Weight</u> <u>(lbs.)</u>	<u>Miles</u>	<u>NMOG</u>	<u>CO</u>	<u>NOx</u>	<u>HCHO</u>	<u>CO (20°F)</u>
5751-8500	50,000	0.079	0.8	0.2	0.001	2.8
	120,000	0.091	0.9	0.2	0.002	n/a

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the medium-duty vehicle phase-in requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles" (Title 13, California Code of Regulations, Section 1960.1(h)(2)).

BE IT FURTHER RESOLVED: That under the submitted medium-duty vehicle phase-in compliance plan, if the manufacturer incurs "Vehicle Equivalent Debits" for the aforementioned model year due to the manufacturer's failure to produce and deliver for sale in California the equivalent quantity of medium-duty vehicles certified to low-emission vehicle and/or ultra-low-emission vehicle exhaust emission standards required by the above-referenced standards and test procedures, all "Vehicle Equivalent Debits" incurred by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 13th day of July 1998.

A handwritten signature in black ink, appearing to read "R. B. Summerfield". The signature is written in a cursive, flowing style with a large initial "R".

R. B. Summerfield, Chief
Mobile Source Operations Division

1999 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLESManufacturer: FORD MOTOR COMPANY Exh. Eng. Fam.: XFMXA04.6JGC Evap. Fam.: XFMXE0155BAG/BAF XFMXE0155BBG/BBFEngine Code Types: CA XXX 49S 50S ORVR: Yes No XXXExhaust Std: CA Tier-1 TLEV LEV XXX ULEV ZEV U.S. EPA TIER-1 Vehicle Class(es): PC LDT1 LDT2 MDV1 MDV2 MDV3 XXX MDV4 MDV5 Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)Exhaust Emiss. Test Fuel: Indolene Fuel Type: Dedicated GasolineEvaporative Emission Test Procedure: California Federal XXXService Accumulation: Std AMA Mod AMA Mfr ADP XXX Other NMOG Test Procedure: N/A Std XXX Equiv R/L Test Procedure: SHED Pt.Source XXXEngine Configuration: V-8 Displacement: 4.6L (280 in³)Valves/Cyl: 2 235 @ 4750 RPM (A4 TRANSMISSION)
Rated HP: 220 @ 4500 RPM (M5 TRANSMISSION)Engine: Front XXX Mid Rear Drive: Fwd RWD XXX 4WD-FT 4WD-PT XXXExhaust Control System and Special Features 2TWC(2), 2HO2S(2), EGR, SFI

(Use abbreviations per SAE J1930 SEP91)

EngineCode (California)	Vehicle Models	Trans.			Ignition Part No (PCM)	EGR System Part No	Catalytic Converter Part No
		A-Auto M-Man	ETW	DPA			
9VNABGBA	EXPEDITION 4x2	A4	6000	*	XL1F-CB	F75E-DA	#
9VNABGBA	EXPEDITION 4x4	A4	6500		XL1F-CB	F75E-DA	
9VNABEB(A/N)	F250 4x2	A4	6000		XC3F-AEB	F75E-DA	
9VNABFB(A/N)	F250 4x2	A4	6000		XC3F-AFB	F75E-DA	
9VNABEB(A/N)	F250 4x4	A4	6000		XC3F-AEB	F75E-DA	
9VNMBABN	F250 4x2	M5	5500		XC3F-AJB	F75E-DA	
9VNMBAB(A/N)	F250 4x2	M5	6000		XC3F-AJB	F75E-DA	
9VNMBBBN	F250 4x2	M5	5500		XC3F-AKB	F75E-DA	
9VNMBBB(A/N)	F250 4x2	M5	6000		XC3F-AKB	F75E-DA	
9VNMBAB(A/N)	F250 4x4	M5	6000		XC3F-AJB	F75E-DA	
9VNMBBB(A/N)	F250 4x4	M5	6000		XC3F-AKB	F75E-DA	

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Engine Family: XFMXA04.6JBC

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Revised:

F250/UN93 4X2	XL34-5E214-CA (LH)	XL34-5G218-CA (RH)
	XL34-5E214-CB (LH) (alt)	XL34-5G218-CB (RH) (alt)
		XL34-5G218-CC (RH) (alt)
		XL34-5G218-CD (RH) (alt)
		XL34-5G218-CE (RH) (alt)
		XL34-5G218-CF (RH) (alt)
		XL34-5G218-CG (RH) (alt)
F250/UN93 4X4	XL34-5E214-DA (LH)	XL34-5G218-DA (RH)
	XL34-5E214-DB (LH) (alt)	XL34-5G218-DB (RH) (alt)
	XL34-5E214-DC (LH) (alt)	XL34-5G218-DC (RH) (alt)
		XL34-5G218-DD (RH) (alt)
		XL34-5G218-DE (RH) (alt)
		XL34-5G218-DF (RH) (alt)
		XL34-5G218-DG (RH) (alt)

UN93 4x2 Expedition

Body	Trans	Tire	ETW	CDT	A/C THP	DPA
UN93 4X2	4R70W	All P255	5250	15.81	20.49	12.7
	A4		5500	16.34	20.77	12.7
		\$	6000	17.39	21.28	12.7
		LT245 AT	5250	15.52	20.87	11.8
			5500	15.90	21.35	11.8
		\$	6000	16.64	22.24	11.8

UN93 4x4 Expedition

Body	Trans	Tire	ETW	CDT	A/C THP	DP
UN93 4X4	4R70W	P255 AS	6000	14.58	25.39	17.
	A4	\$	6500	15.20	26.39	17.
		P255 AT	6000	14.65	25.24	17.
		\$	6500	15.27	26.24	17.
		P265 AT	6000	14.96	24.73	16.
		\$	6500	15.63	25.64	16.
		LT245 AT	6000	13.82	26.77	17.
		\$	6500	14.55	27.54	17.

F250 4x2 Super Cab

Body	Eng	Trans	Tire	ETW	CDT	THP	DPA	CDT	A/C THP	DPA
(4X2)	4.6	manual	P255 AS	5000	15.95	19.40	14.7	14.86	20.75	16.1
SCS				5250	16.62	19.53	14.7	15.50	20.89	16.1
			\$	6000	17.89	20.75	14.7	16.74	22.11	16.1
			LT245 AS	5000	15.30	20.21	13.3	14.35	21.50	14.6
				5250	15.96	20.33	13.3	14.98	21.62	14.6
			\$	6000	17.47	21.25	13.3	16.42	22.54	14.6
	4.6	4R70W	P255 AS	5000	15.12	20.45	14.2	14.15	21.80	15.6
		A4		5250	15.77	20.58	14.2	14.76	21.94	15.6
			\$	6000	17.02	21.80	14.2	15.98	23.16	15.6
			LT245 AS	5000	14.54	21.26	12.7	13.72	22.49	14.0
				5250	15.18	21.38	12.7	14.32	22.61	14.0
			\$	6000	16.64	22.30	12.7	15.73	23.53	14.0

F250 4X2 Regular Cab

Body	Eng	Trans	Tire	ETW	Non-A/C			A/C		
(4X2)					CDT	THP	DPA	CDT	THP	DPA
RCL	4.6	manual	P255 AS	4750	14.92	19.70	15.3	13.92	21.06	16.7
				5000	15.61	19.81	15.3	14.57	21.17	16.7
				5250	16.17	20.08	15.3	15.11	21.43	16.7
			\$	6000	17.43	21.30	15.3	16.33	22.66	16.7
			LT245 AS	4750	14.31	20.53	13.9	13.40	21.87	15.3
				5000	14.99	20.63	13.9	14.04	21.97	15.3
				5250	15.55	20.87	13.9	14.58	22.22	15.3
			\$	6000	17.07	21.75	13.9	16.02	23.11	15.3
	4.6	4R70W	P255 AS	4750	14.16	20.75	14.7	13.26	22.11	16.1
		A4		5000	14.82	20.86	14.7	13.88	22.22	16.1
				5250	15.27	21.26	14.7	14.32	22.62	16.1
			\$	6000	16.61	22.35	14.7	15.61	23.71	16.1
			LT245 AS	4750	13.61	21.58	13.4	12.81	22.87	14.7
				5000	14.26	21.68	13.4	13.43	22.97	14.7
				5250	14.74	22.03	13.4	13.88	23.33	14.7
			\$	6000	16.27	22.81	13.4	15.35	24.12	14.7

F250 4x4

Vehicle Description						nac			ac		
Body	Eng	Trans	Drive	Tire	ETW	CDT	THP	DPA	CDT	THP	DPA
all	4.6	manual	4x4	LT 245 75R 16 AS & AT	5250	13.24	24.50	15.3	12.51	25.86	16.7
					5500	13.73	24.76	15.3	12.98	26.12	16.7
					\$ 6000	14.68	25.26	15.3	13.89	26.62	16.7
					\$ 6500	15.61	25.72	15.3	14.79	27.09	16.7
	4.6	4R70W		LT 245 75R 16 AS & AT	5250	13.18	24.62	15.3	12.46	25.98	16.7
					5500	13.67	24.87	15.3	12.92	26.23	16.7
					\$ 6000	14.67	25.29	15.3	13.88	26.65	16.7
					\$ 6500	15.53	25.86	15.3	14.71	27.23	16.7

Engine Family: XFXA04.6JGC

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Revised: